

WHAT IS CLAIMED IS:

1. A rapid self-error-check circuit of a computer power supply,
wherein a computer power supply is installed with a
self-detecting device; an LED displaying light and detecting
5 button are exposed out from the casing of the power supply;
thereby, the normality of the power supply is detected by
pressing a detecting button and then the result is displayed
through the colors of the LED displaying light.
2. The rapid self-error-check circuit of a computer power supply
10 as claimed in claim 1, wherein the power supply with an LED
displaying light and a button is installed in a transversal or
upright computer mainframe; the LED displaying light and
button exposes out; thereby, the user presses the button by a
finger and the LED displaying light displays the results.
3. The rapid self-error-check circuit of a computer power supply
15 as claimed in claim 1, wherein the circuit in the power supply
includes a power supply operation detecting circuit and a
power supply standby power source detecting circuit.
4. The rapid self-error-check circuit of a computer power supply
20 as claimed in claim 3, wherein the power supply operation
detecting circuit includes an AC power input end, a detecting
switch, a rectifier, a power system, an auxiliary power source
or standby power source and a detector; the detector detects
the power condition of a power system, and detects output
25 voltage; the detected result is displayed by the LED displaying

light.

5. The rapid self-error-check circuit of a computer power supply as claimed in claim 4, wherein the LED displaying light includes a light for standby power source and a light for power output; the light for standby power supply is green and the light for power supply is yellow; the color of the light is changed according to the output voltage of the standby power source or power supply or specific signals.
6. The rapid self-error-check circuit of a computer power supply as claimed in claim 5, wherein as the LED displaying light in standby condition;
- a green light of the LED displaying light lights up;
- if the indicator extinguishes, it represents that the power supply is abnormal, which includes the following condition:
- (a) power supply circuit of the standby power source has faults;
- (b) overload;
- if a yellow indicator lights up, then the user can not detect by himself, namely;
- (a) if pressing a detecting button to conduct a detecting switch, yellow light lights up and the green light extinguishes; it represents that power source is normal;
- (b) If pressing a detecting button, the green lights still lights up; it represent that the power source is abnormal.
7. The rapid self-error-check circuit of a computer power supply

as claimed in claim 3, wherein the power supply standby power source detecting circuit includes an AC power input end, a detecting switch, a rectifier, a power system, an auxiliary power source or standby power source and a detector; the detector detects the power condition of a power system, and detects output voltage; the detected result is displayed by the LED displaying light.

8. The rapid self-error-check circuit of a computer power supply as claimed in claim 7, wherein the following conditions are included;
- if a green light lights up, it represents that the auxiliary power source or standby power source is normal; and
- if the indicator is extinguished, it represents no auxiliary power source or standby power source, including conditions of:
- (a) no AC input;
 - (b) no fault in power wire; and
 - (c) when output load being larger than 130% – 160%, the detector informing to interrupt power supply; and improper load being removed, and the power being restored.